

Data Path : Z:\HPCHEM1\BNA E\DATA\BE121517\
 Data File : BE095000.D
 Acq On : 15 Dec 2017 14:04
 Operator : SJ/JU
 Sample : I6876-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Dec 15 16:32:27 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 14 18:42:53 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.47	152	7041	0.40	ng	0.00
7) Naphthalene-d8	11.31	136	14882	0.40	ng	-0.02
13) Acenaphthene-d10	15.06	164	8329	0.40	ng	0.00
19) Phenanthrene-d10	17.76	188	19189	0.40	ng	-0.02
27) Chrysene-d12	21.85	240	23241	0.40	ng	-0.02
34) Perylene-d12	24.53	264	17781	0.40	ng	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.95	112	1922	0.18	ng	0.00
5) Phenol-d6	7.59	99	1703	0.10	ng	0.00
8) Nitrobenzene-d5	9.65	82	6166	0.50	ng	0.00
11) 2-Methylnaphthalene-d10	12.85	152	9772	0.40	ng	-0.01
14) 2,4,6-Tribromophenol	16.52	330	924	0.48	ng	-0.02
15) 2-Fluorobiphenyl	13.70	172	16145	0.44	ng	0.00
25) Fluoranthene-d10	19.74	212	107015	0.43	ng	-0.01
29) Terphenyl-d14	20.30	244	21972	0.50	ng	-0.02

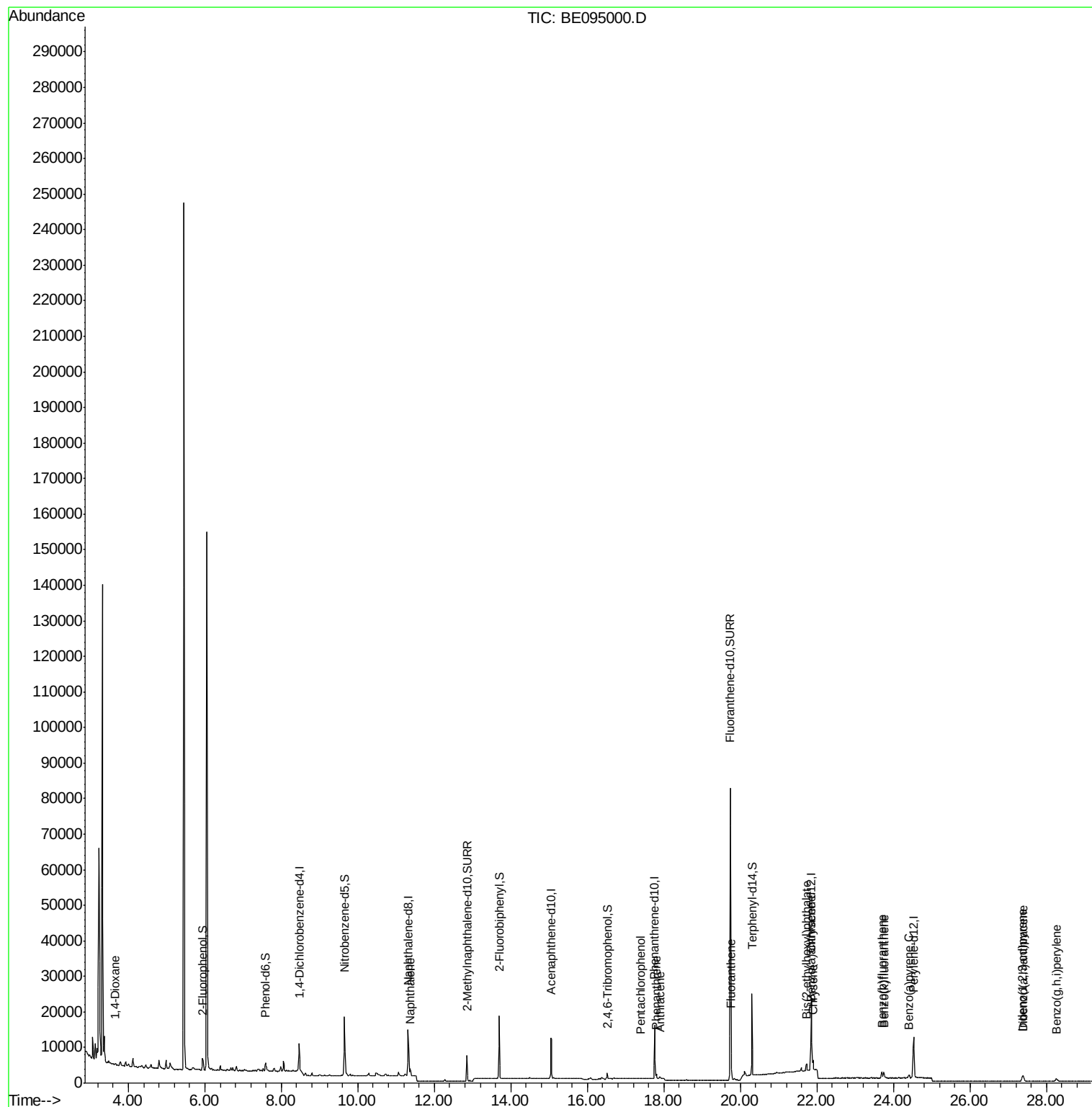
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.66	88	203	0.029	ng	# 1
9) Naphthalene	11.36	128	7619	0.044	ng	# 92
22) Pentachlorophenol	17.40	266	17	0.085	ng	# 90
23) Phenanthrene	17.80	178	1340	0.022	ng	# 90
24) Anthracene	17.89	178	1293	0.021	ng	# 44
26) Fluoranthene	19.77	202	1563	0.021	ng	# 90
30) Benzo(a)anthracene	21.84	228	2739	0.040	ng	# 66
31) Chrysene	21.90	228	3559	0.047	ng	# 67
32) Bis(2-ethylhexyl)phthalate	21.73	149	3507	0.041	ng	# 95
33) Indeno(1,2,3-cd)pyrene	27.37	276	2552	0.041	ng	# 98
35) Benzo(b)fluoranthene	23.70	252	2744	0.042	ng	# 82
36) Benzo(k)fluoranthene	23.75	252	2560	0.039	ng	# 67
37) Benzo(a)pyrene	24.41	252	1680	0.029	ng	# 46
38) Dibenzo(a,h)anthracene	27.40	278	2089	0.039	ng	# 78
39) Benzo(a,h,i)perylene	28.26	276	2217	0.041	ng	# 82

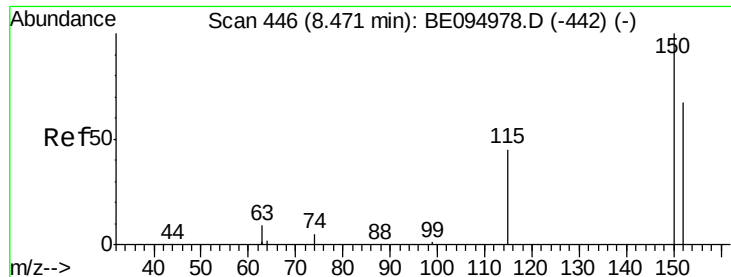
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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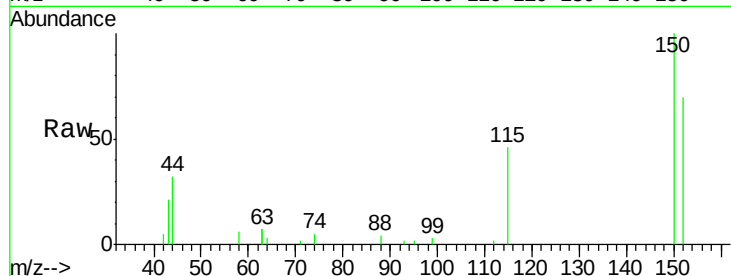


#1

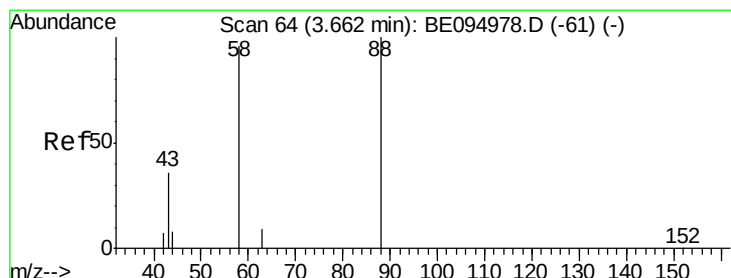
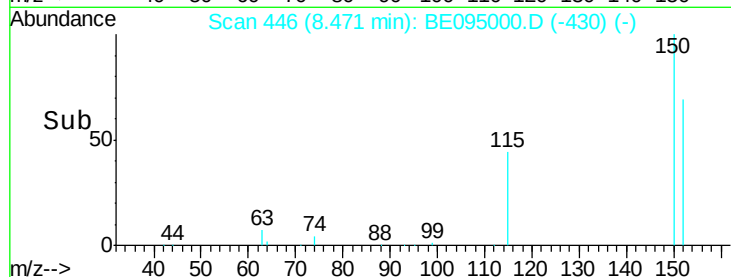
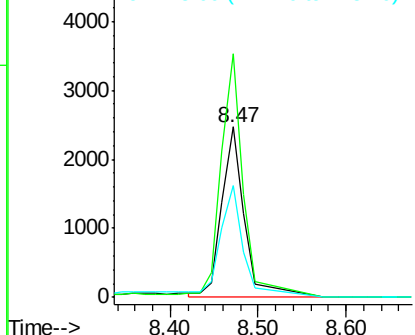
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.47 min Scan# 446
Delta R.T. 0.00 min
Lab File: BE095000.D
Acq: 15 Dec 2017 14:04

Instrument :
BNA_E
ClientSampleId :

Tot Ion:152 Resp: 7041
Ion Ratio Lower Upper
152 100
150 143.0 117.2 175.8
115 65.4 57.0 85.6



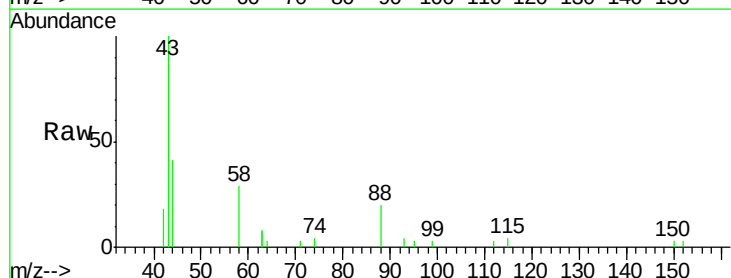
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



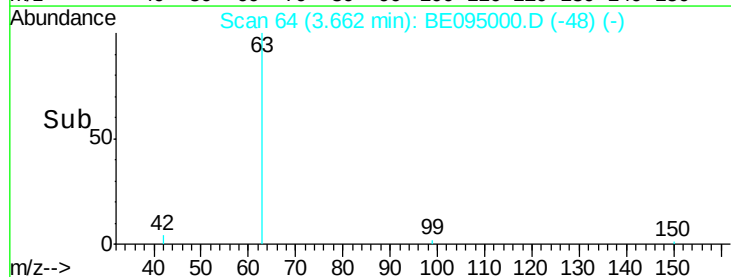
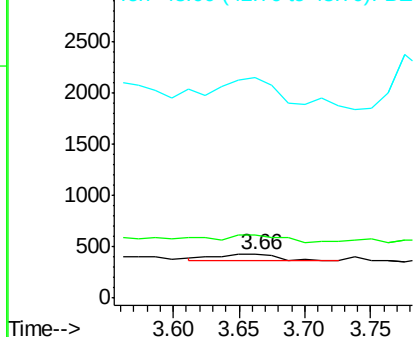
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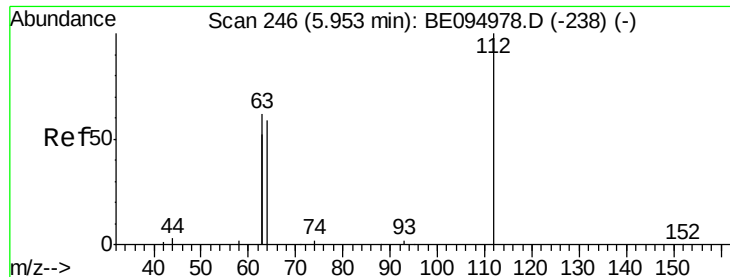
1,4-Dioxane
Concen: 0.029 ng
RT: 3.66 min Scan# 64
Delta R.T. 0.00 min
Lab File: BE095000.D
Acq: 15 Dec 2017 14:04

Tgt Ion: 88 Resp: 203
Ion Ratio Lower Upper
88 100
58 76.4 63.2 94.8
43 327.6 41.2 61.8#



Abundance Ion 88.00 (87.70 to 88.70): BE0
Ion 58.00 (57.70 to 58.70): BE0
Ion 43.00 (42.70 to 43.70): BE0





#4

2-Fluorophenol

Concen: 0.176 ng

RT: 5.95 min Scan# 246

Delta R.T. 0.00 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

Instrument :

BNA_E

ClientSampleId :

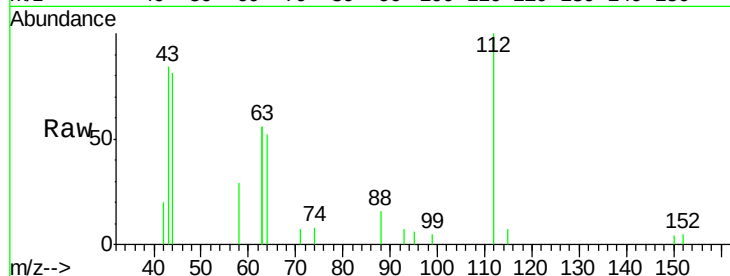
Tot Ion:112 Resp: 1922

Ion Ratio Lower Upper

112 100

64 70.5 60.1 90.1

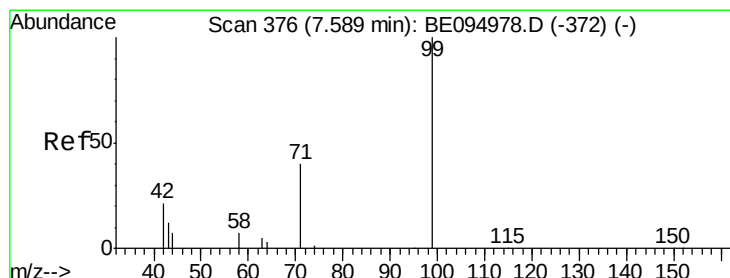
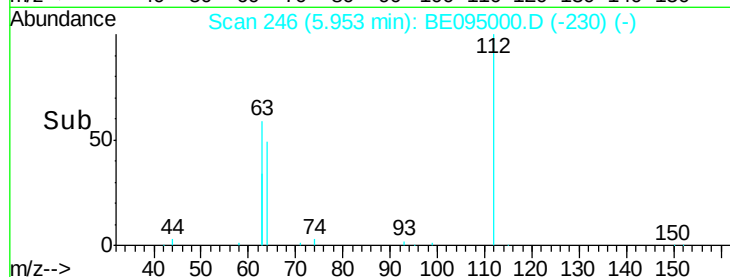
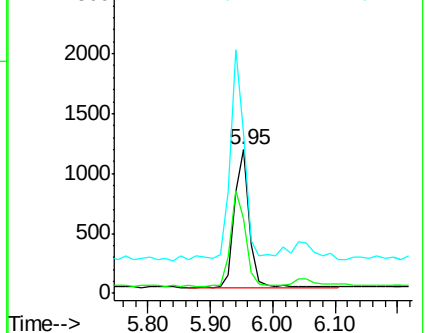
63 152.5 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 0.105 ng

RT: 7.59 min Scan# 376

Delta R.T. 0.00 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

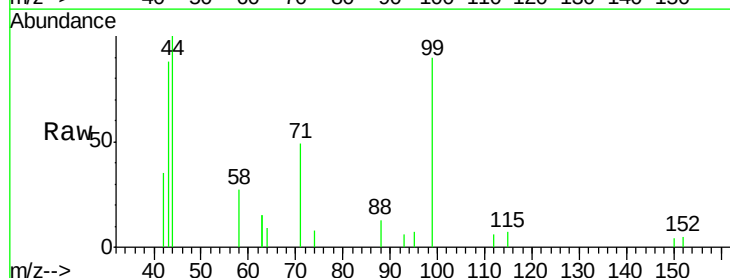
Tgt Ion: 99 Resp: 1703

Ion Ratio Lower Upper

99 100

42 27.2 20.2 30.2

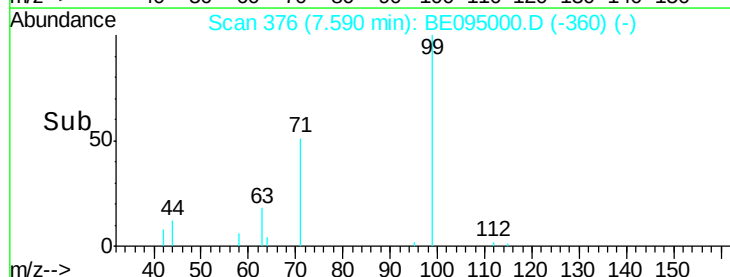
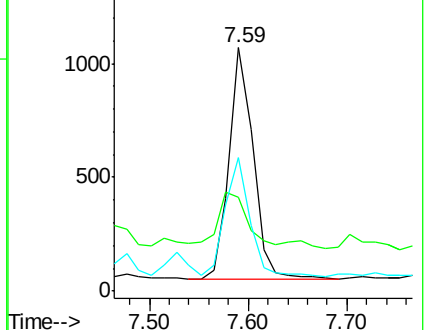
71 52.7 28.4 42.6#

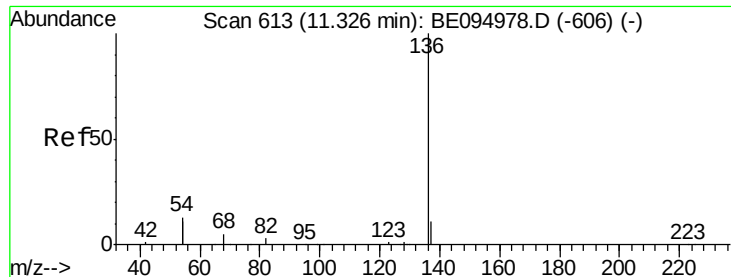


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.31 min Scan# 612

Delta R.T. -0.02 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 14882

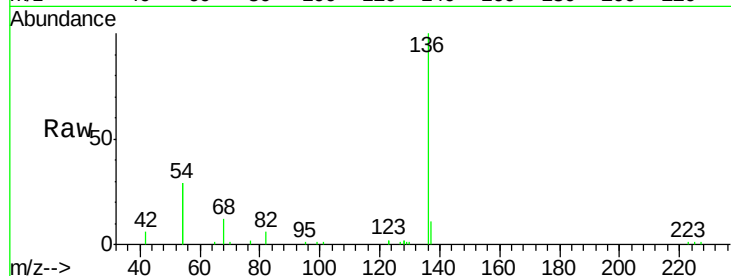
Ion Ratio Lower Upper

136 100

137 11.1 9.5 14.3

54 57.0 29.1 43.7#

68 11.7 6.2 9.2#

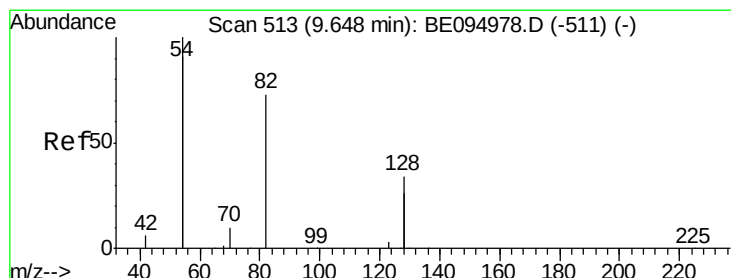
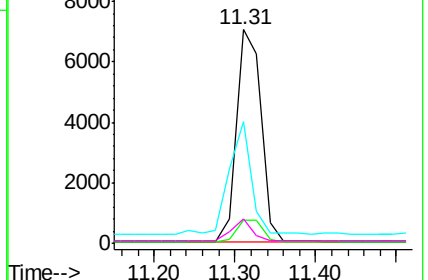
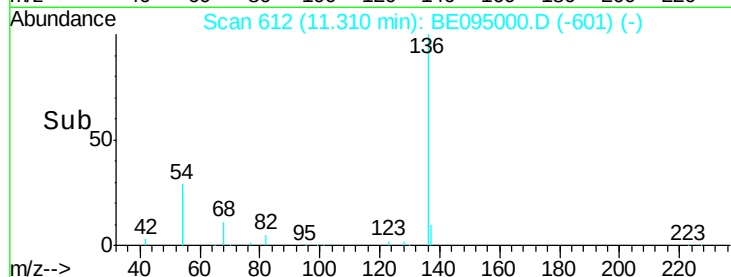


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 0.505 ng

RT: 9.65 min Scan# 513

Delta R.T. 0.00 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

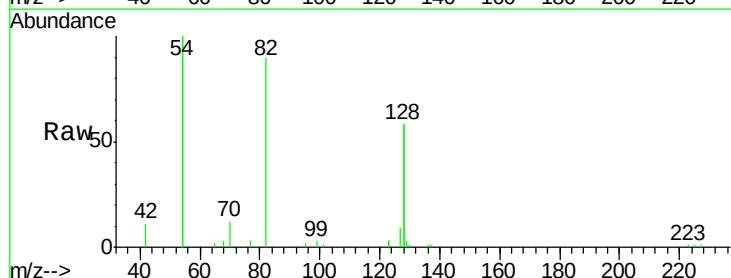
Tgt Ion: 82 Resp: 6166

Ion Ratio Lower Upper

82 100

128 129.4 150.0 225.0#

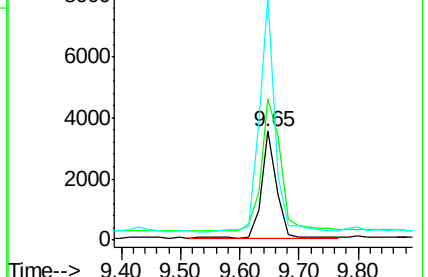
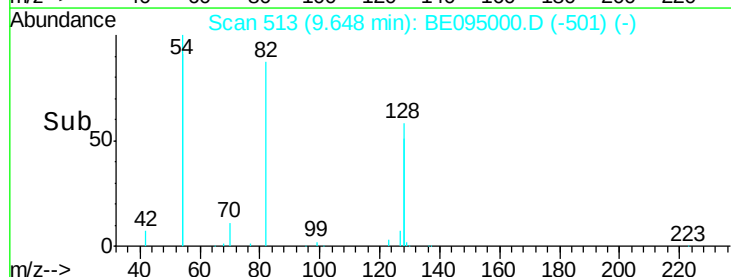
54 223.2 154.2 231.4

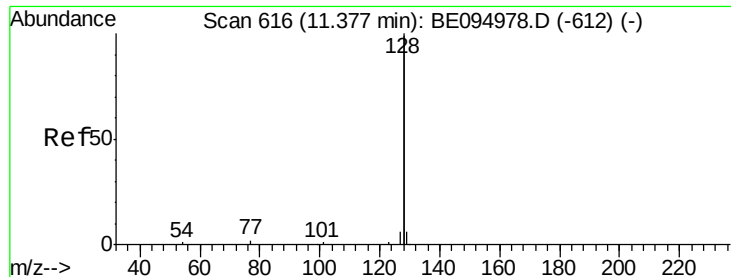


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 0.044 ng

RT: 11.36 min Scan# 615

Delta R.T. -0.02 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

Instrument :

BNA_E

ClientSampleId :

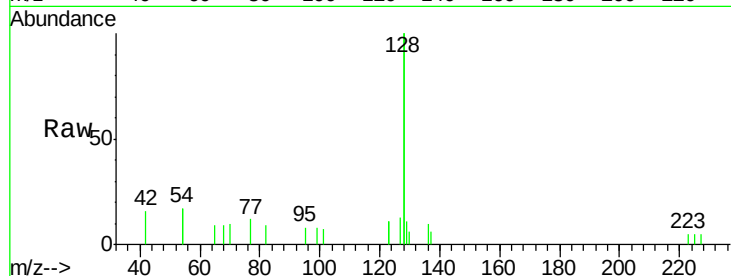
Tot Ion:128 Resp: 7619

Ion Ratio Lower Upper

128 100

129 5.4 2.6 3.8#

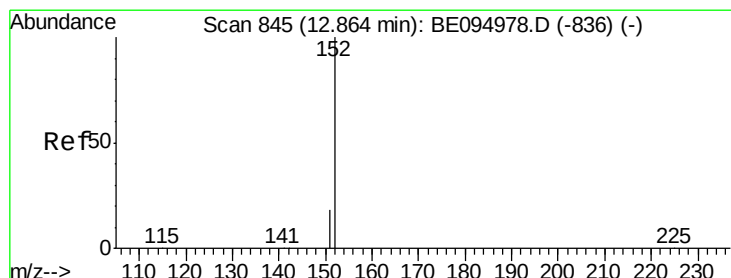
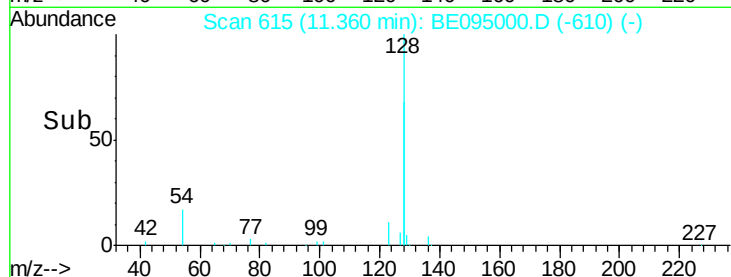
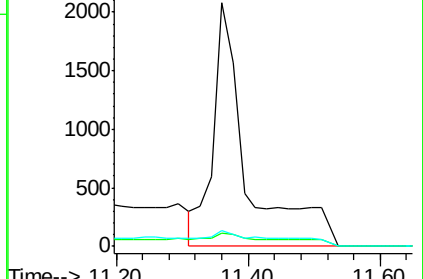
127 6.4 2.8 4.2#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.401 ng

RT: 12.85 min Scan# 843

Delta R.T. -0.01 min

Lab File: BE095000.D

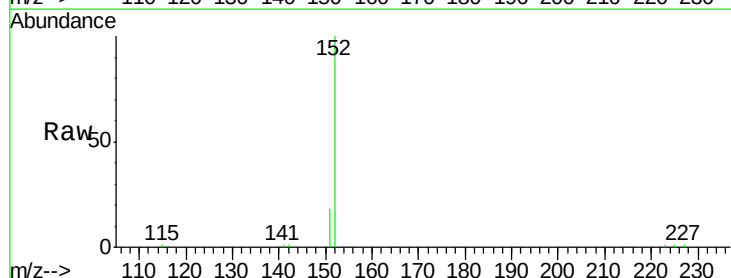
Acq: 15 Dec 2017 14:04

Tgt Ion:152 Resp: 9772

Ion Ratio Lower Upper

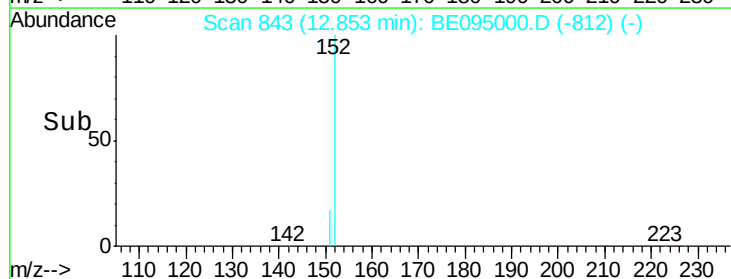
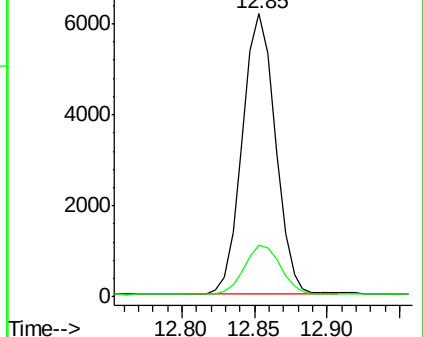
152 100

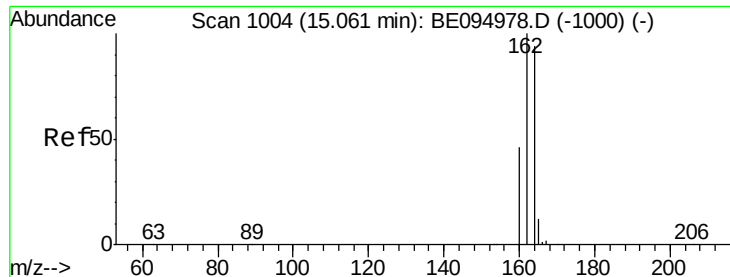
151 19.1 15.4 23.0



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

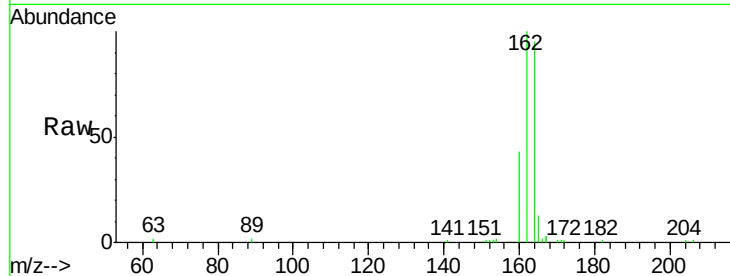




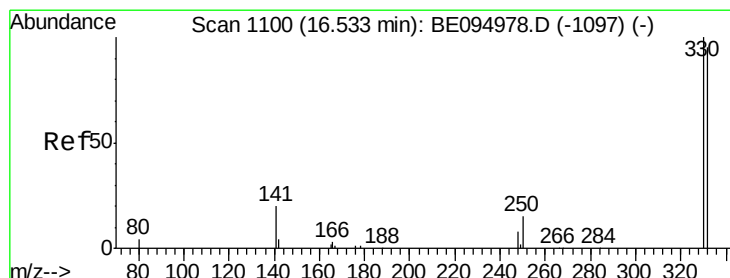
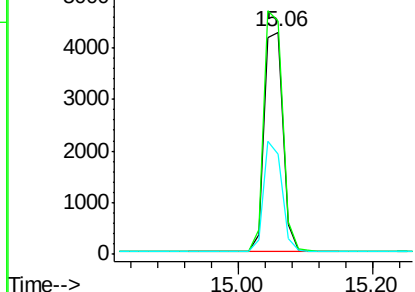
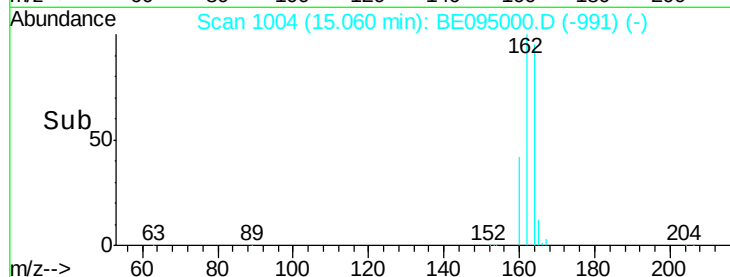
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 15.06 min Scan# 1004
Delta R.T. -0.00 min
Lab File: BE095000.D
Acq: 15 Dec 2017 14:04

Instrument :
BNA_E
ClientSampleId :

Tot Ion:164 Resp: 8329
Ion Ratio Lower Upper
164 100
162 104.9 83.1 124.7
160 45.1 37.1 55.7

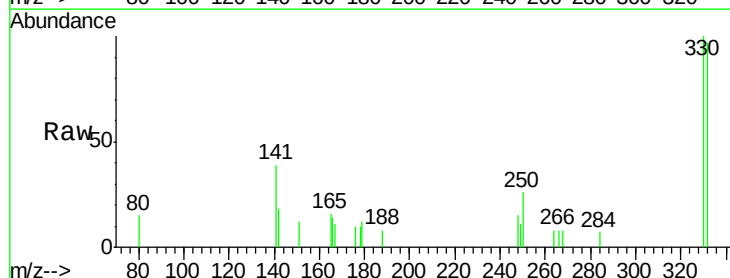


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

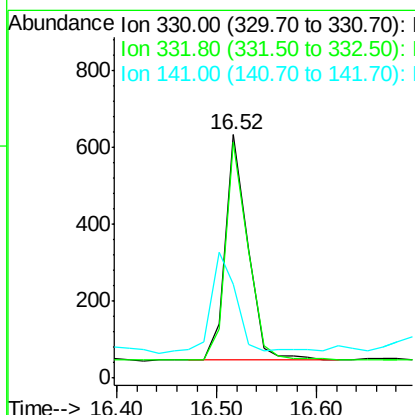
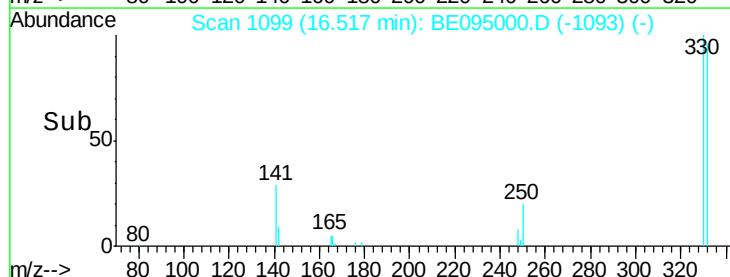


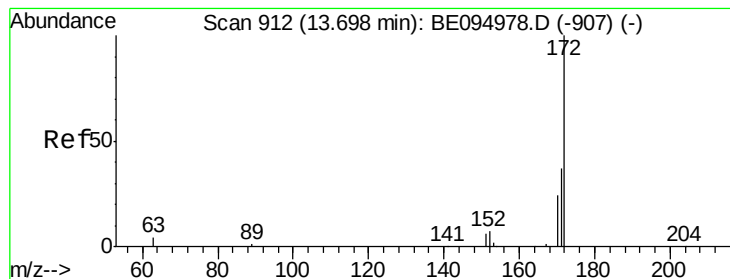
#14
2,4,6-Tribromophenol
Concen: 0.477 ng
RT: 16.52 min Scan# 1099
Delta R.T. -0.02 min
Lab File: BE095000.D
Acq: 15 Dec 2017 14:04

Tgt Ion:330 Resp: 924
Ion Ratio Lower Upper
330 100
332 97.9 152.7 229.1#
141 46.5 33.7 50.5



Abundance Ion 330.00 (329.70 to 330.70): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E

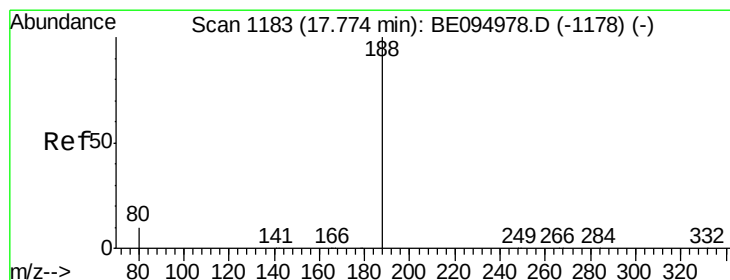
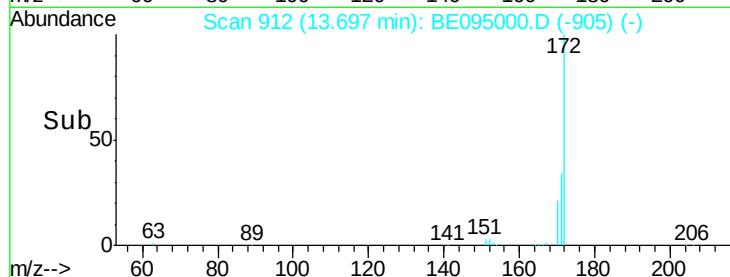
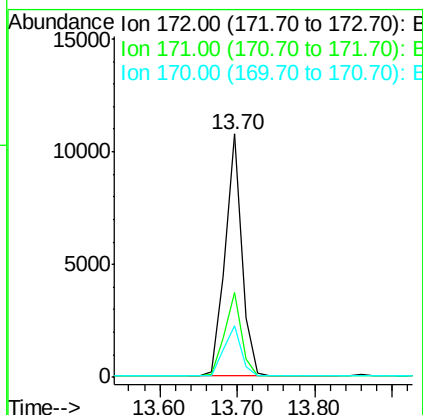
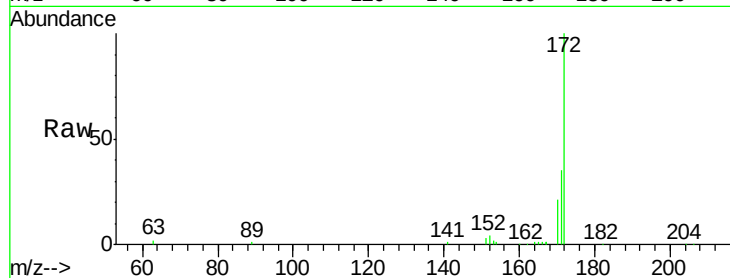




#15
2-Fluorobiphenyl
Concen: 0.437 ng
RT: 13.70 min Scan# 912
Delta R.T. -0.00 min
Lab File: BE095000.D
Acq: 15 Dec 2017 14:04

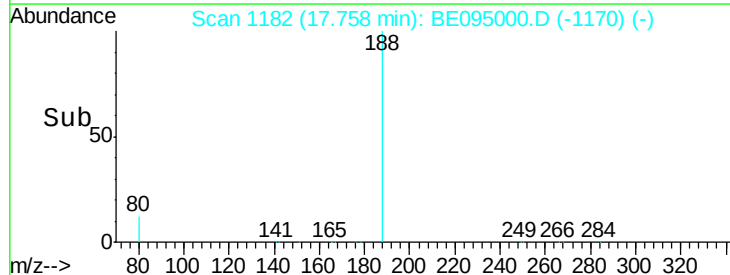
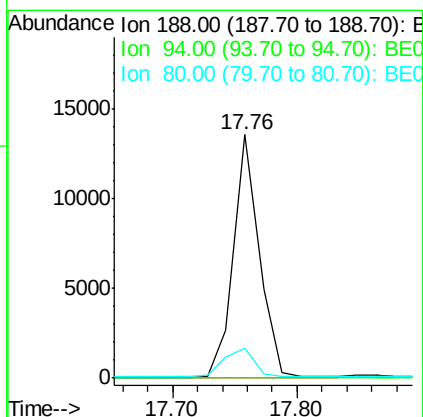
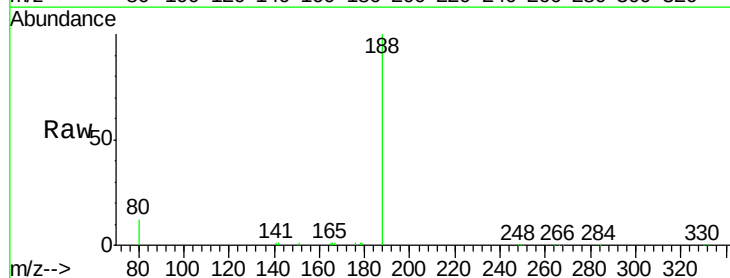
Instrument :
BNA_E
ClientSampled :

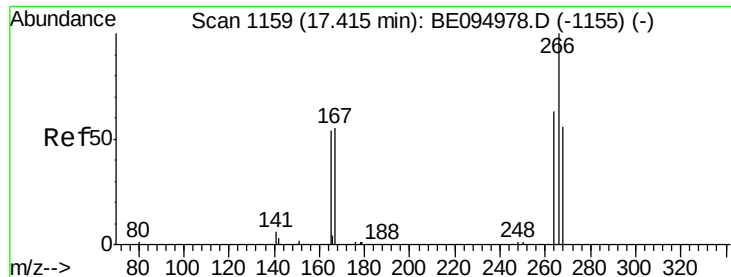
Tot Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.9	44.9
170	21.0	21.8	32.8



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.76 min Scan# 1182
Delta R.T. -0.02 min
Lab File: BE095000.D
Acq: 15 Dec 2017 14:04

Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	3.9	5.9
80	12.4	3.6	5.4





#22

Pentachlorophenol

Concen: 0.085 ng

RT: 17.40 min Scan# 1158

Delta R.T. -0.02 min

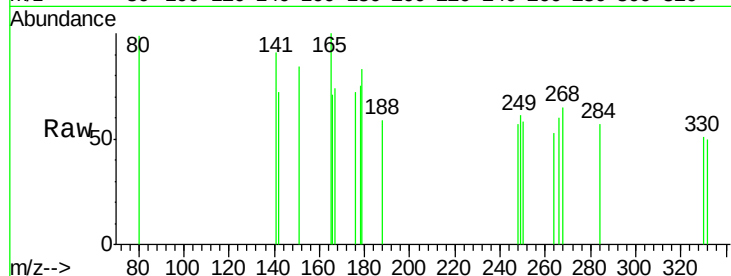
Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

Instrument :

BNA_E

ClientSampled :



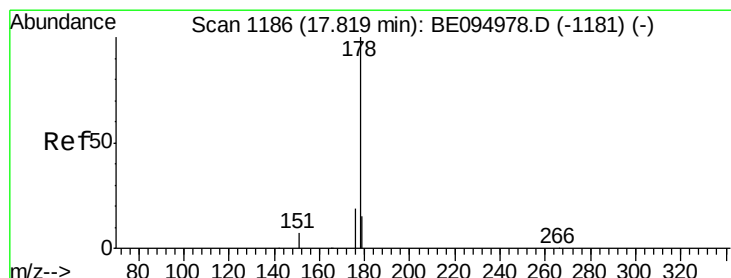
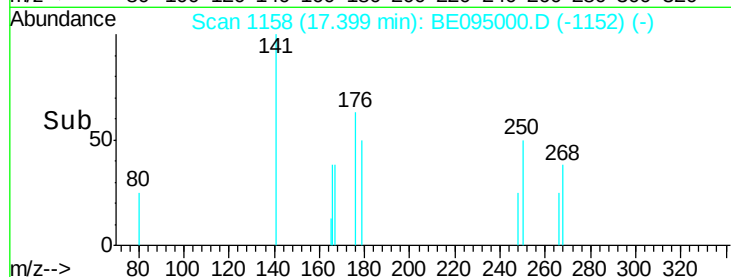
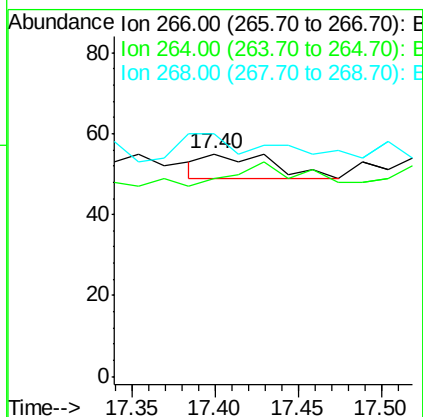
Tot Ion:266 Resp: 17

Ion Ratio Lower Upper

266 100

264 89.1 72.5 108.7

268 109.1 73.8 110.6



#23

Phenanthrene

Concen: 0.022 ng

RT: 17.80 min Scan# 1185

Delta R.T. -0.02 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

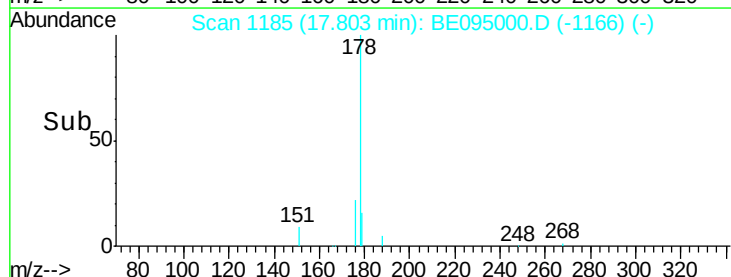
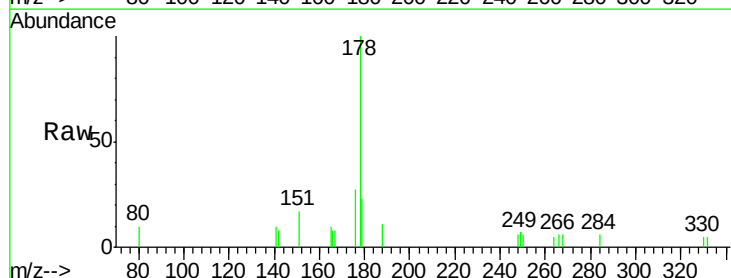
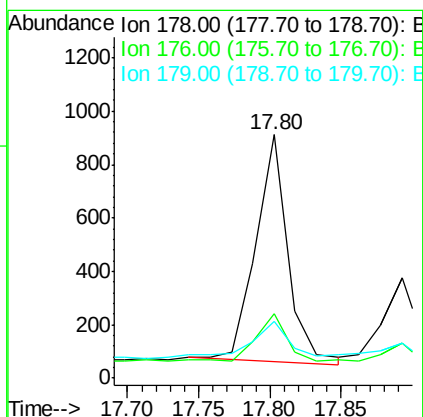
Tgt Ion:178 Resp: 1340

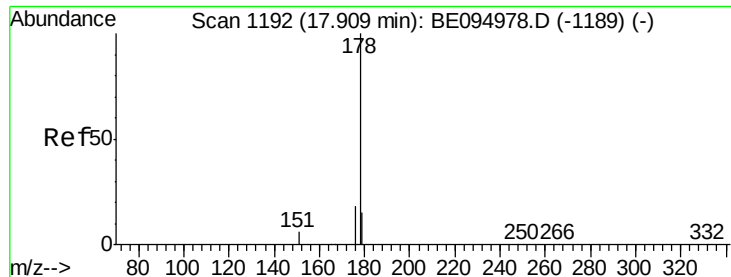
Ion Ratio Lower Upper

178 100

176 26.4 15.1 22.7#

179 13.8 11.8 17.6





#24

Anthracene

Concen: 0.021 ng

RT: 17.89 min Scan# 1191

Delta R.T. -0.02 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

Instrument :

BNA_E

ClientSampleId :

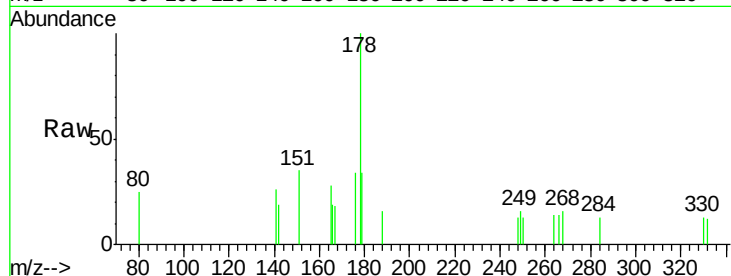
Tot Ion:178 Resp: 1293

Ion Ratio Lower Upper

178 100

176 52.7 12.8 19.2#

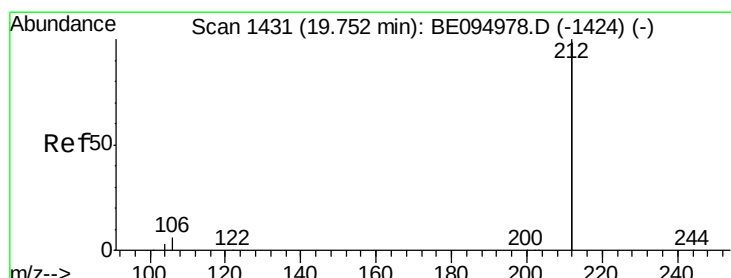
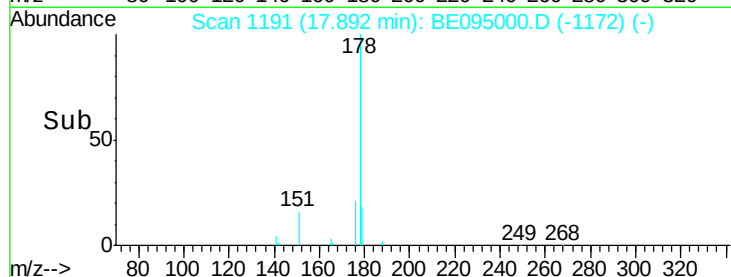
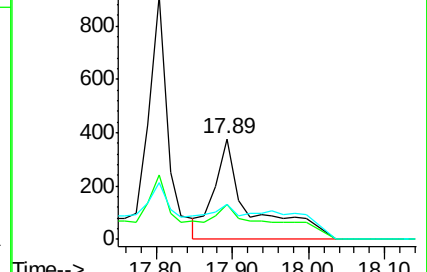
179 5.5 13.0 19.6#



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.430 ng

RT: 19.74 min Scan# 1429

Delta R.T. -0.01 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

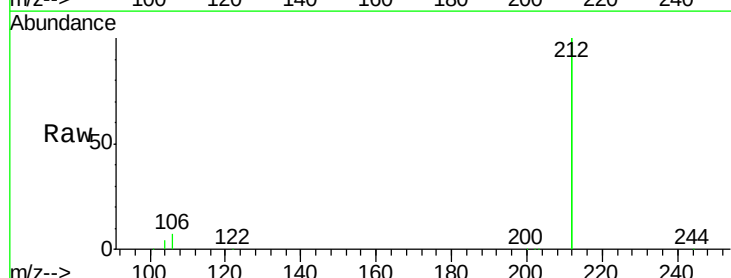
Tgt Ion:212 Resp: 107015

Ion Ratio Lower Upper

212 100

106 3.3 2.8 4.2

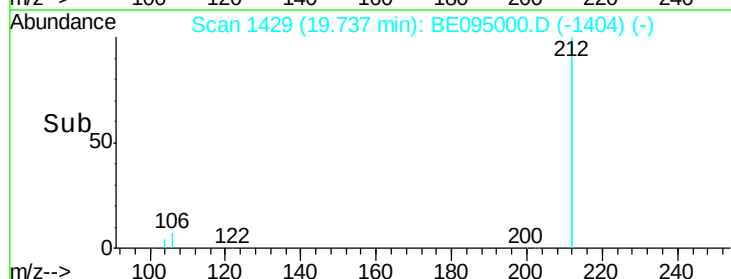
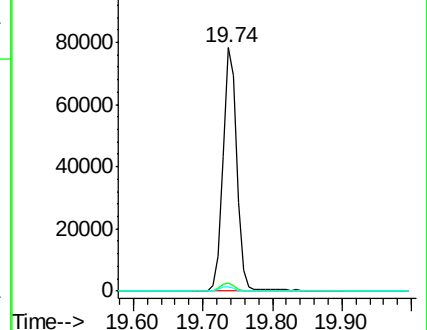
104 1.9 1.6 2.4

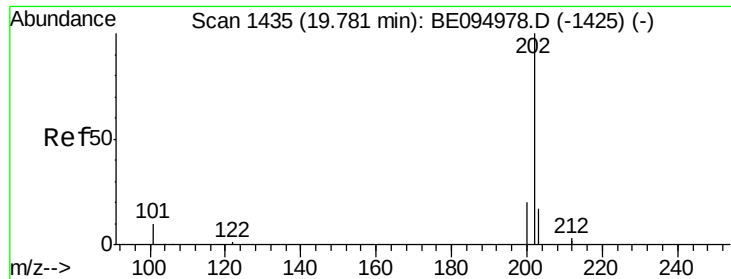


Abundance Ion 212.00 (211.70 to 212.70): E

Ion 106.00 (105.70 to 106.70): E

Ion 104.00 (103.70 to 104.70): E

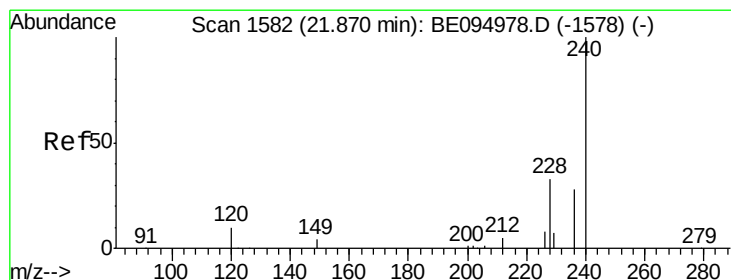
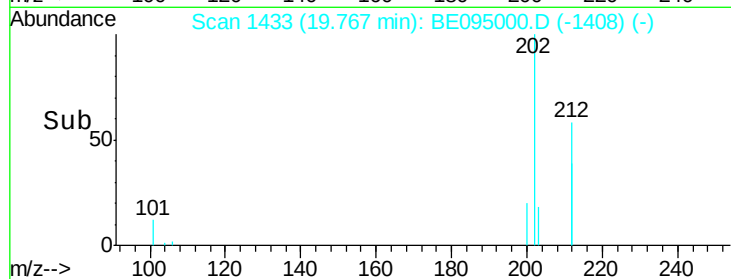
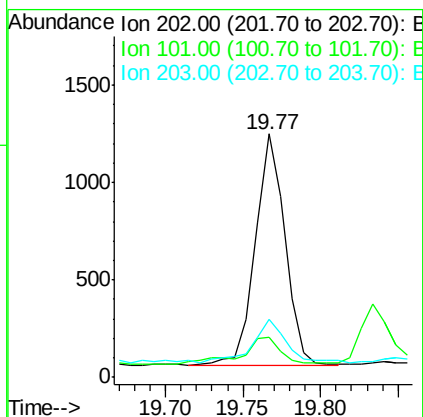
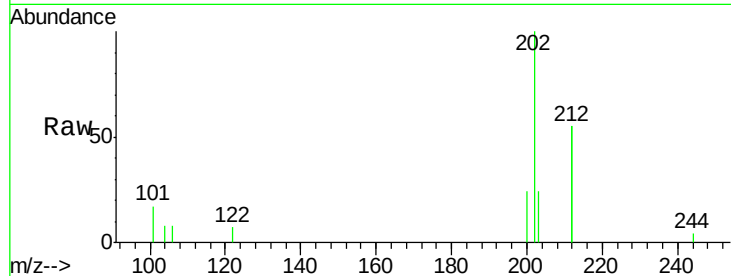




#26
Fluoranthene
Concen: 0.021 ng
RT: 19.77 min Scan# 1433
Delta R.T. -0.01 min
Lab File: BE095000.D
Acq: 15 Dec 2017 14:04

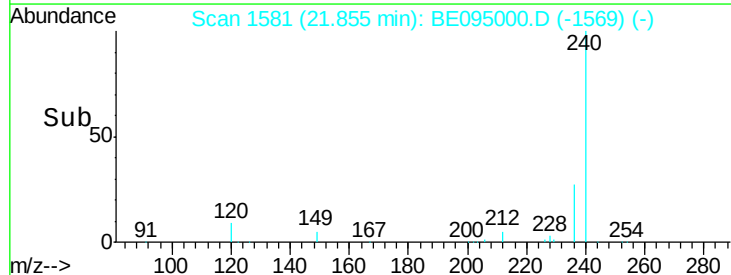
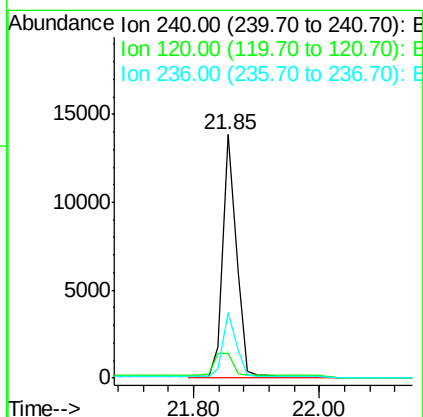
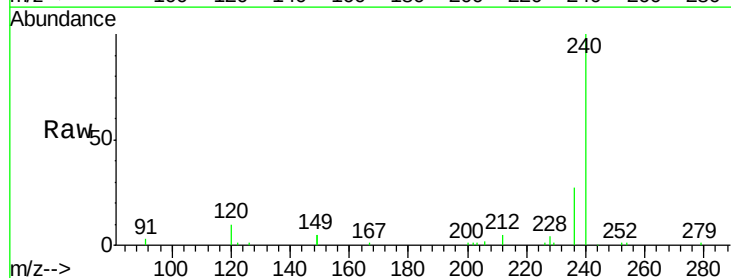
Instrument :
BNA_E
ClientSampleId :

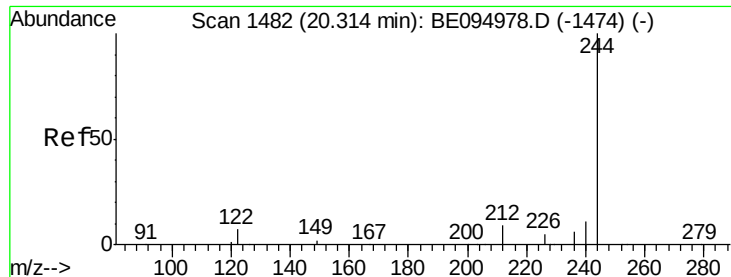
Tot Ion:202 Resp: 1563
Ion Ratio Lower Upper
202 100
101 16.1 9.8 14.8#
203 21.8 13.7 20.5#



#27
Chrysene-d12
Concen: 0.400 ng
RT: 21.85 min Scan# 1581
Delta R.T. -0.02 min
Lab File: BE095000.D
Acq: 15 Dec 2017 14:04

Tgt Ion:240 Resp: 23241
Ion Ratio Lower Upper
240 100
120 10.0 5.5 8.3#
236 27.2 20.7 31.1





#29

Terphenyl-d14

Concen: 0.502 ng

RT: 20.30 min Scan# 1481

Delta R.T. -0.02 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

Instrument :

BNA_E

ClientSampleId :

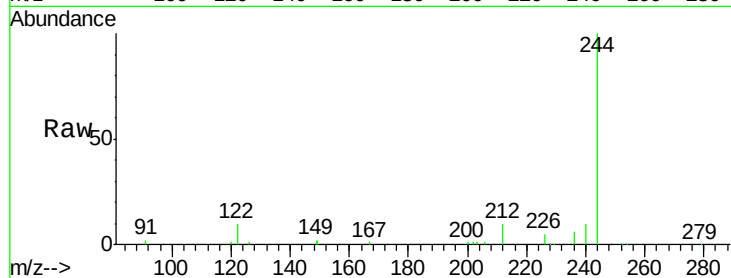
Tot Ion:244 Resp: 21972

Ion Ratio Lower Upper

244 100

212 9.8 25.4 38.0#

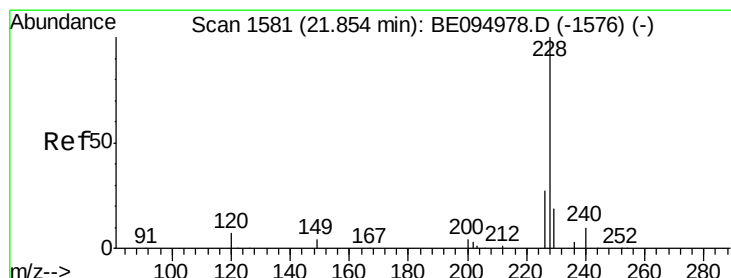
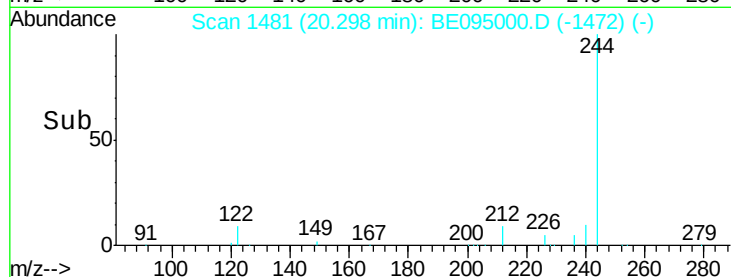
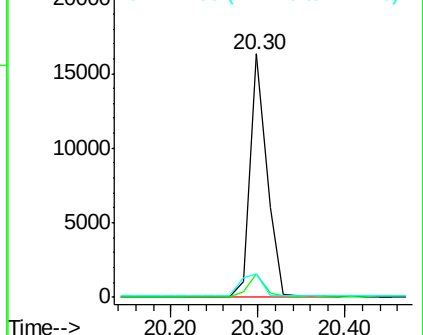
122 9.7 8.1 12.1



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.040 ng

RT: 21.84 min Scan# 1580

Delta R.T. -0.02 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

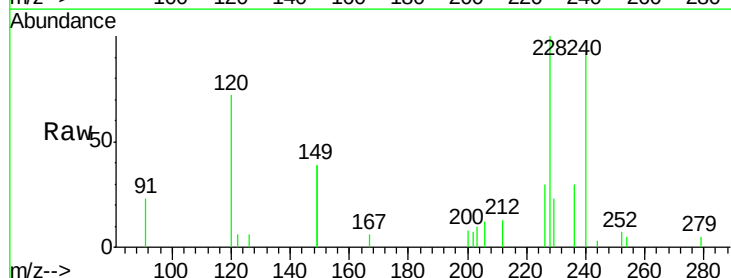
Tgt Ion:228 Resp: 2739

Ion Ratio Lower Upper

228 100

226 30.1 40.0 60.0#

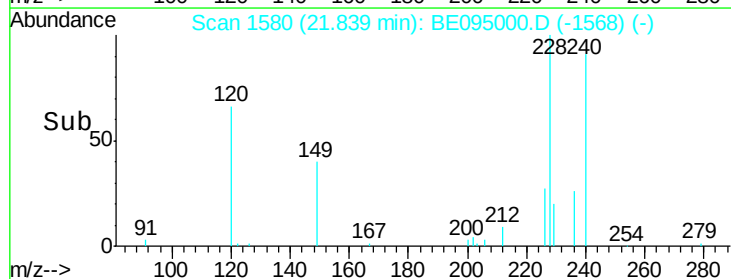
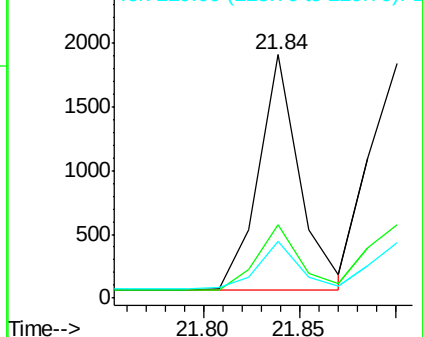
229 23.4 40.0 60.0#

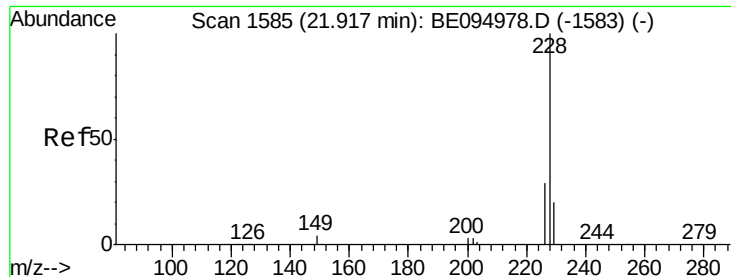


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.047 ng

RT: 21.90 min Scan# 1584

Delta R.T. -0.02 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

Instrument :

BNA_E

ClientSampled :

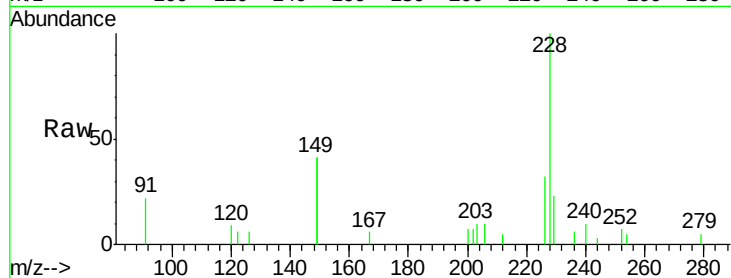
Tot Ion:228 Resp: 3559

Ion Ratio Lower Upper

228 100

226 31.5 40.0 60.0#

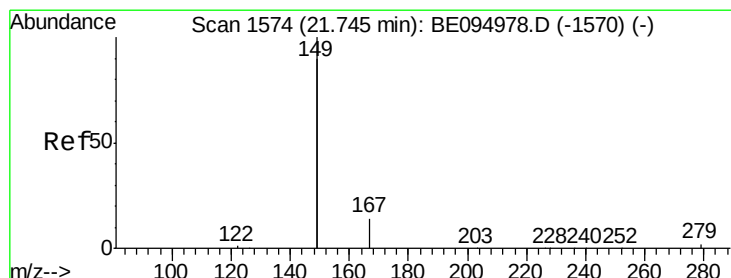
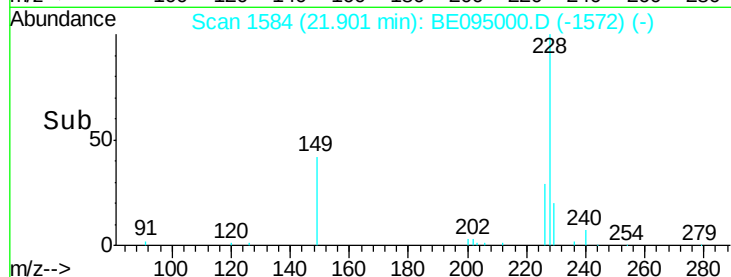
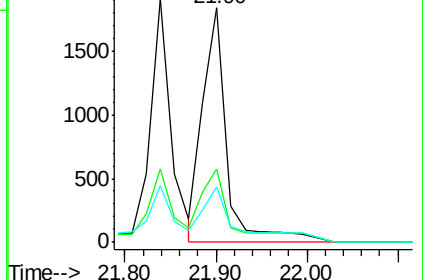
229 23.5 40.0 60.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.041 ng

RT: 21.73 min Scan# 1573

Delta R.T. -0.02 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

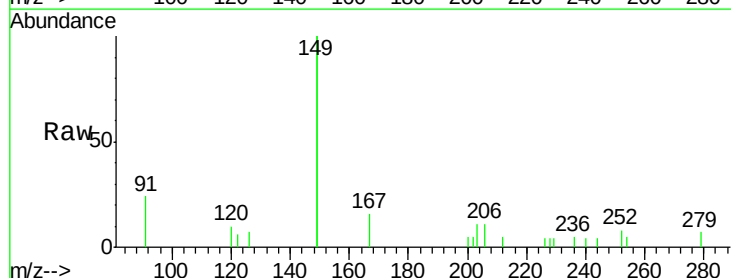
Tgt Ion:149 Resp: 3507

Ion Ratio Lower Upper

149 100

167 8.4 5.4 8.0#

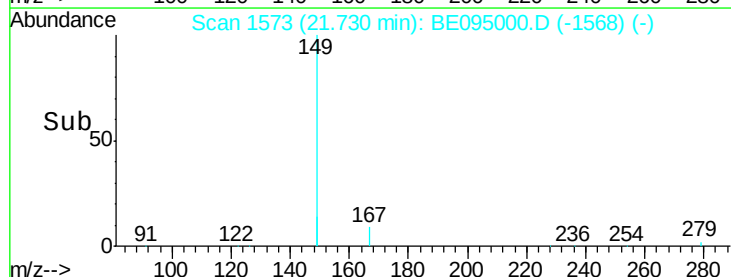
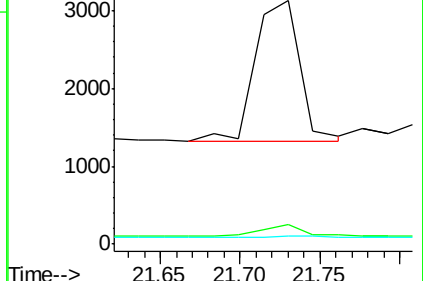
279 2.2 0.7 1.1#

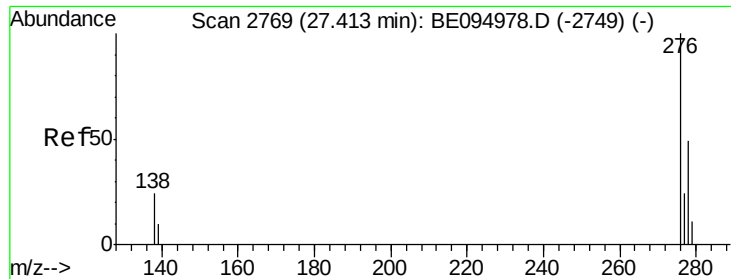


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

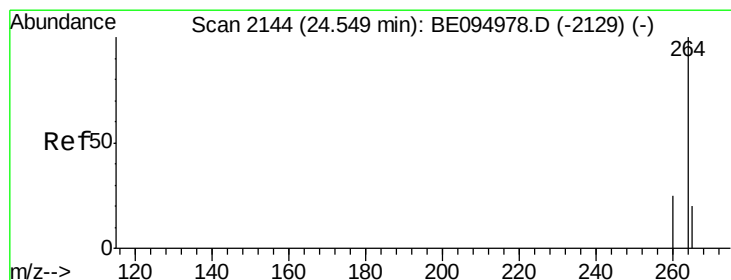
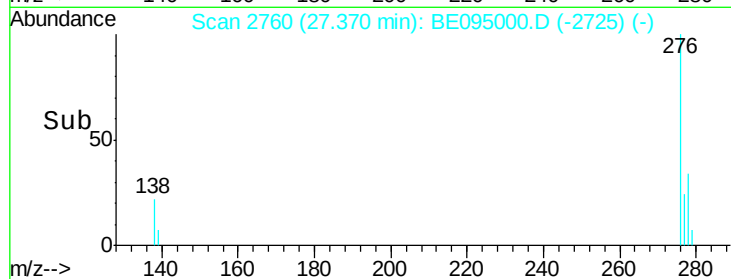
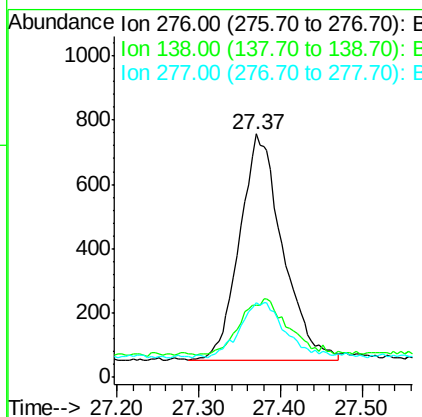
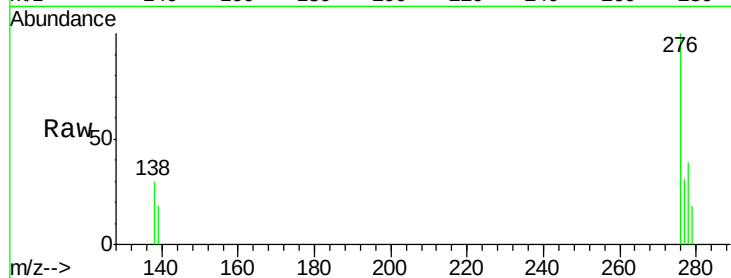




#33
Indeno(1,2,3-cd)pyrene
Concen: 0.041 ng
RT: 27.37 min Scan# 2760
Delta R.T. -0.04 min
Lab File: BE095000.D
Acq: 15 Dec 2017 14:04

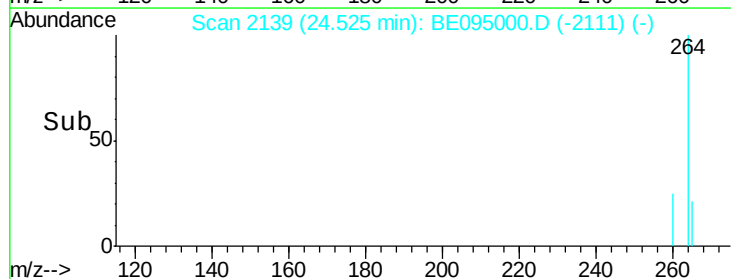
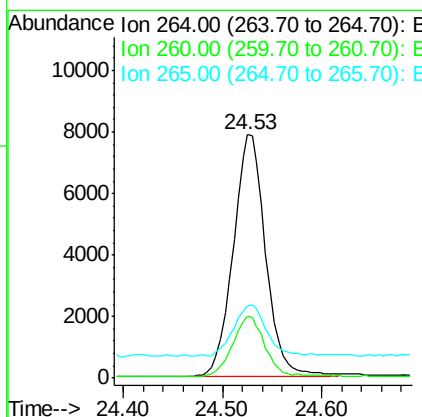
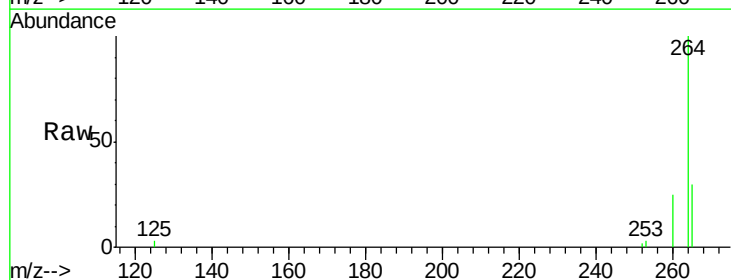
Instrument :
BNA_E
ClientSampleId :

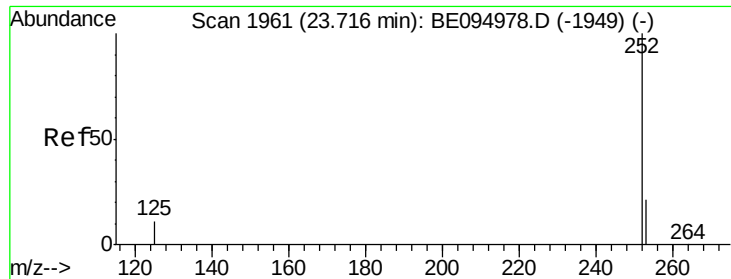
Tot Ion:276 Resp: 2552
Ion Ratio Lower Upper
276 100
138 27.6 22.5 33.7
277 26.1 19.9 29.9



#34
Perylene-d12
Concen: 0.400 ng
RT: 24.53 min Scan# 2139
Delta R.T. -0.02 min
Lab File: BE095000.D
Acq: 15 Dec 2017 14:04

Tgt Ion:264 Resp: 17781
Ion Ratio Lower Upper
264 100
260 25.3 20.5 30.7
265 29.7 22.8 34.2





#35

Benzo(b)fluoranthene

Concen: 0.042 ng

RT: 23.70 min Scan# 1957

Delta R.T. -0.02 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

Instrument :

BNA_E

ClientSampleId :

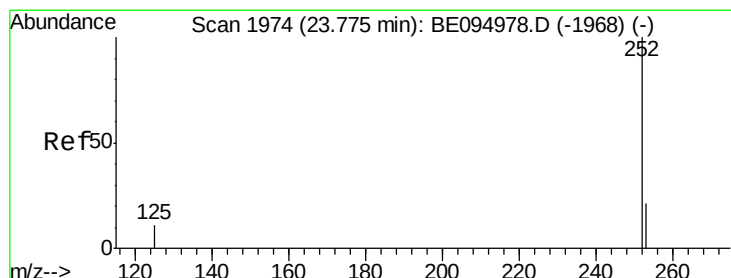
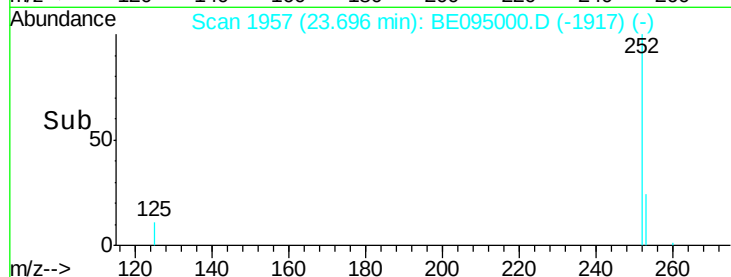
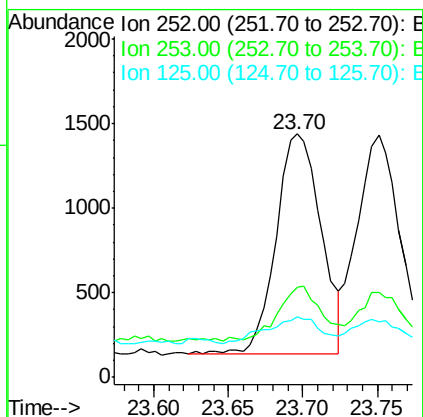
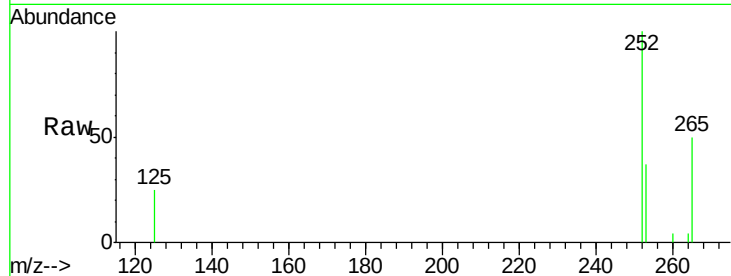
Tot Ion:252 Resp: 2744

Ion Ratio Lower Upper

252 100

253 36.9 20.0 30.0#

125 24.7 16.0 24.0#



#36

Benzo(k)fluoranthene

Concen: 0.039 ng

RT: 23.75 min Scan# 1969

Delta R.T. -0.02 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

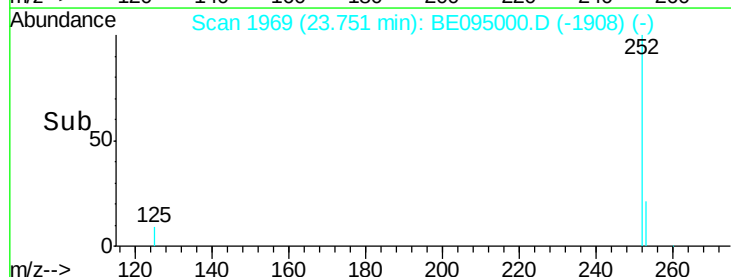
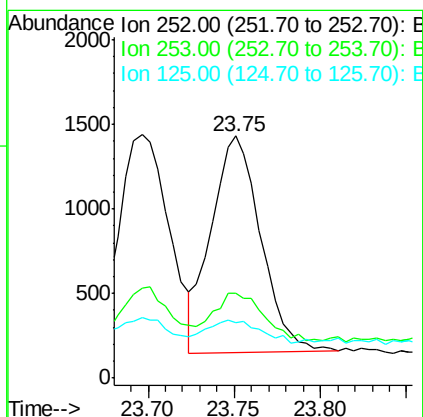
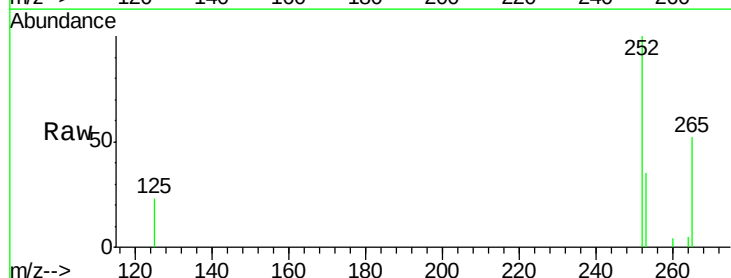
Tgt Ion:252 Resp: 2560

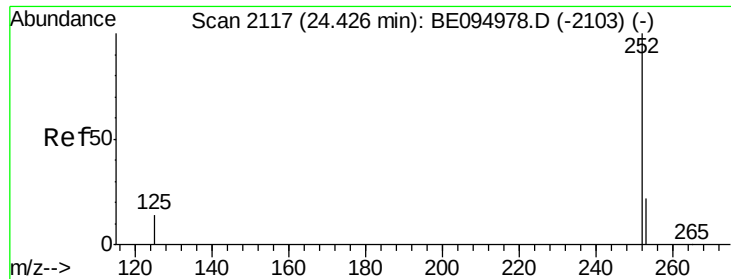
Ion Ratio Lower Upper

252 100

253 35.0 16.0 24.0#

125 23.0 8.0 12.0#





#37

Benzo(a)pyrene

Concen: 0.029 ng

RT: 24.41 min Scan# 2113

Delta R.T. -0.02 min

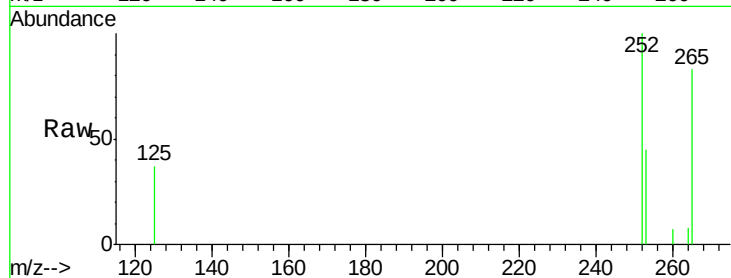
Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

Instrument :

BNA_E

ClientSampled :



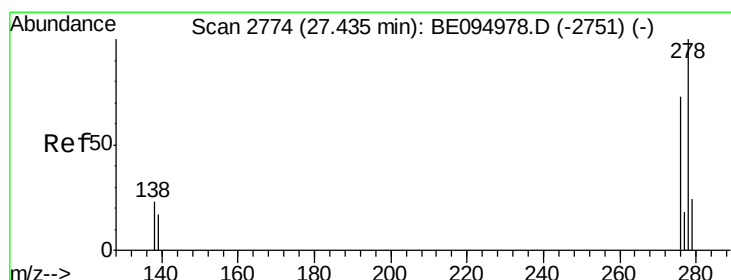
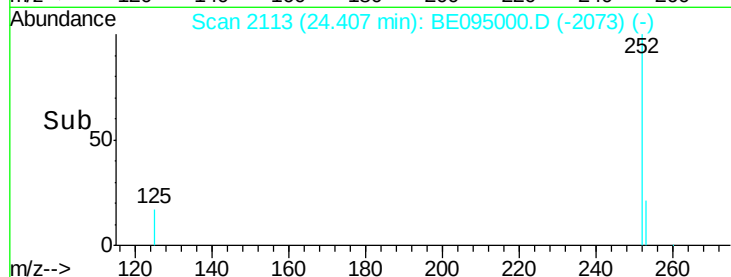
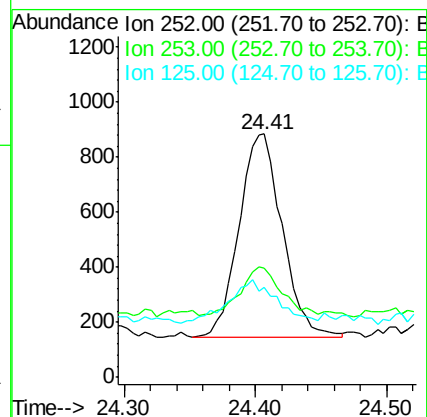
Tot Ion:252 Resp: 1680

Ion Ratio Lower Upper

252 100

253 45.0 16.0 24.0#

125 36.8 12.0 18.0#



#38

Dibenzo(a,h)anthracene

Concen: 0.039 ng

RT: 27.40 min Scan# 2767

Delta R.T. -0.03 min

Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

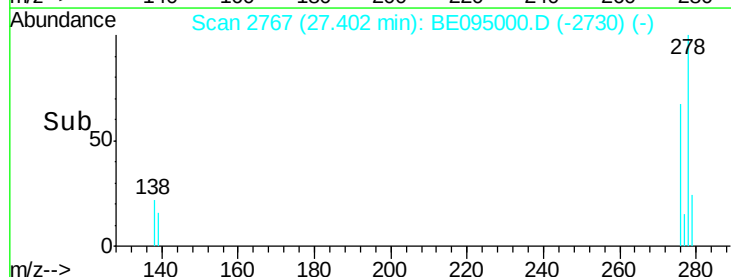
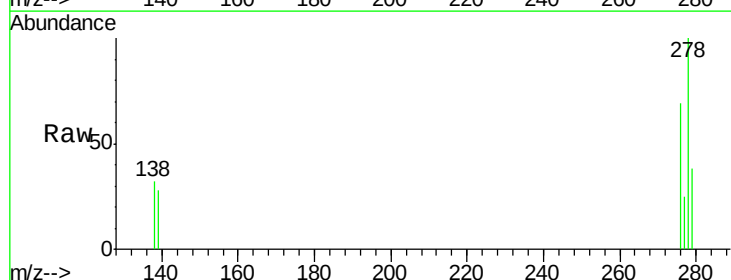
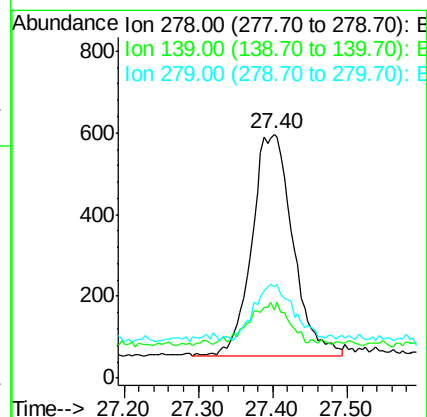
Tgt Ion:278 Resp: 2089

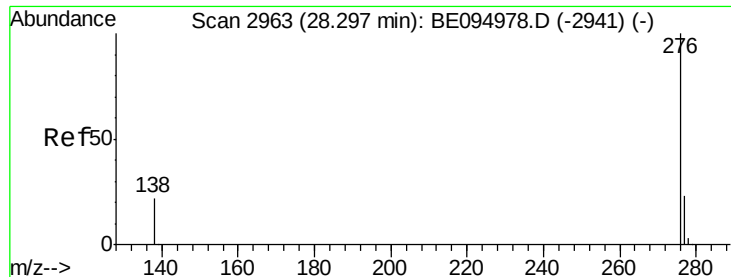
Ion Ratio Lower Upper

278 100

139 27.9 16.0 24.0#

279 37.6 20.0 30.0#





#39

Benzo(a,h,i)perylene

Concen: 0.041 ng

RT: 28.26 min Scan# 2956

Delta R.T. -0.03 min

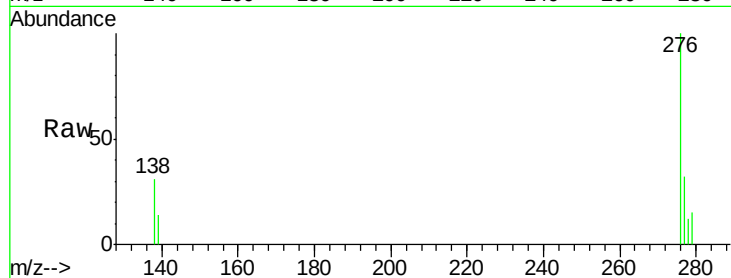
Lab File: BE095000.D

Acq: 15 Dec 2017 14:04

Instrument :

BNA_E

ClientSampleId :



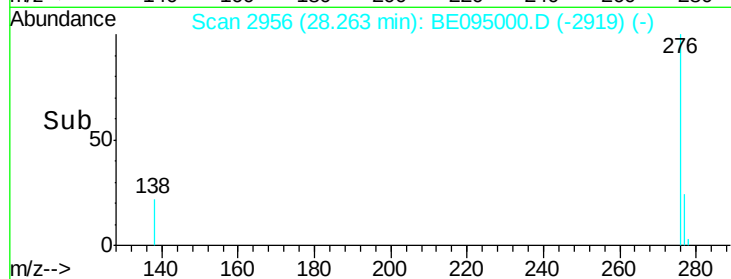
Tot Ion: 276 Resp: 2217

Ion Ratio Lower Upper

276 100

277 31.6 16.0 24.0#

138 31.3 20.0 30.0#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

